

***Remarks***

Upon entry of the foregoing amendment, claims 75-81, 83-92, 94-104, 106-115, and 117-123 are pending in the application, with claims 75, 86, 97, and 109 being the independent claims. Claims 120-123 are sought to be added. Support for new claims 120-123 can be found throughout the specification. Claims 75, 86, 97, and 109 are sought to be amended. These changes are believed to introduce no new matter, and their entry is respectfully requested.

***Rejections under 35 U.S.C. § 102***

Claims 75, 79, 81, 83, 86, 90, 92, 94, 97, 98, 106, 109, 113, 115, and 117 are rejected under 35 U.S.C. 102(e) as allegedly being anticipated by U.S. Patent. No. 6,160,280 to Bonn et al. (hereinafter "Bonn"). Applicants respectfully traverse this rejection.

Independent claim 75 has been amended to recite, among other features, "wherein a control signal is electrically coupled *directly* to the gate of the transistor". As amended, claim 75 indicates that the control signal is applied directly, and not through any intermediary components, to the gate of the transistor. Bonn fails to teach or suggest at least this feature of amended claim 75. Indeed, Fig. 1 of Bonn shows that elements 36 and 44 separate LO signal 55 from the gate of transistor 50. For at least this reason, amended claim 75 is patentable over Bonn. Reconsideration and withdrawal of the rejection of claim 75 is respectfully requested.

Claims 86, 97, and 109, as amended, recite similar direct coupling features as recited in amended claim 75. For at least the reasons provided above with respect to

claim 75, claims 86, 97, and 109 are patentable over Bonn. Reconsideration and withdrawal of the rejection of claims 86, 97, and 108 is respectfully requested.

Claims 79, 81, and 83 depend directly from claim 75. For at least the reasons provided above with respect to claim 75, claims 79, 81, and 83 are patentable over Bonn. Reconsideration and withdrawal of the rejection of claims 79, 81, and 83 is respectfully requested.

Claims 90, 92, and 94 depend directly from claim 86. For at least the reasons provided above with respect to claim 86, claims 90, 92, and 94 are patentable over Bonn. Reconsideration and withdrawal of the rejection of claims 90, 92, and 94 is respectfully requested.

Claims 98 and 106 depend directly from claim 97. For at least the reasons provided above with respect to claim 97, claims 98 and 106 are patentable over Bonn. Reconsideration and withdrawal of the rejection of claims 98 and 106 is respectfully requested.

Claims 113, 115, and 117 depend directly from claim 109. For at least the reasons provided above with respect to claim 109, claims 113, 115, and 117 are patentable over Bonn. Reconsideration and withdrawal of the rejection of claims 113, 115, and 117 is respectfully requested.

***Rejections under 35 U.S.C. § 103***

Claims 76, 80, 84, 85, 87, 91, 95, 96, 99, 100, 103, 104, 107, 108, 110, 114, 118, and 119 are rejected under 35 U.S.C. 103(a) as allegedly being unpatentable over Bonn.

Claims 76, 80, 84, and 85 depend directly or indirectly from claim 75. For at least the reasons provided above with respect to amended claim 75, claims 76, 80, 84,

and 85 are patentable over Bonn. Reconsideration and withdrawal of the rejection of claims 76, 80, 84, and 85 is respectfully requested.

Claims 87, 91, 95, and 96 depend directly or indirectly from claim 86. For at least the reasons provided above with respect to amended claim 86, claims 87, 91, 95, and 96 are patentable over Bohn. Reconsideration and withdrawal of the rejection of claims 87, 91, 95, and 96 is respectfully requested.

Claims 99, 100, 103, 104, 107, and 108 depend directly or indirectly from claim 97. For at least the reasons provided above with respect to amended claim 97, claims 99, 100, 103, 104, 107, and 108 are patentable over Bohn. Reconsideration and withdrawal of the rejection of claims 99, 100, 103, 104, 107, and 108 is respectfully requested.

Claims 110, 114, 118, and 119 depend directly or indirectly from claim 109. For at least the reasons provided above with respect to amended claim 109, claims 110, 114, 118, and 119 are patentable over Bohn. Reconsideration and withdrawal of the rejection of claims 110, 114, 118, and 119 is respectfully requested.

### ***Claim Objections***

Claims 77, 78, 88, 89, 101, 102, 111, and 112 stand objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

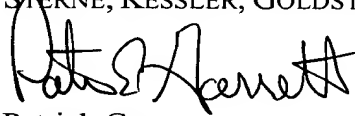
Claims 77, 78, 88, 89, 101, 102, 111, and 112 depend directly or indirectly from either of claims 75, 86, 97, or 109. Claims 75, 86, 97, and 109 have been amended herein to overcome their current rejections. Accordingly, claims 77, 78, 88, 89, 101, 102, 111, and 112 are patentable. Reconsideration and withdrawal of the objection to claims 77, 78, 88, 89, 101, 102, 111, and 112 is respectfully requested.

***Conclusion***

Prompt and favorable consideration of this Preliminary Amendment is respectfully requested. Applicants believe the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Respectfully submitted,

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A handwritten signature in black ink, appearing to read "Patrick Garrett", is written over the printed name.

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